

ISSN 2595-8801



Volume 1

n° 01

(2019)

7950

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7950 NW, 53rd Street (Suite 337)  
Miami, FL (USA)

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## **BIOCOMUNICAÇÃO INSTRUMENTAL, UM NOVO RECURSO DE TERAPIA NA PRÁTICA CLÍNICA**

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## **INSTRUMENTAL BIOCOMMUNICATION, A NEW RESOURCE OF THERAPY IN CLINICAL PRACTICE**

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### **Abstract**

Quantum physics considers that the human body is an electromagnetic field generator, which is influenced by the environment and other living beings (biocommunication). Therefore, our body acts as a gauge and generator of bioinformation. Studies in this area have increased considerably in recent years, mainly with the use of equipment (instrumental biocommunication), which aim to rebalance the patient's electromagnetic field by sending information. The possibility of these devices recognizing the body's quantum physicochemical properties and intervening in them has presented promising results for this new type of therapy. The theory proposes to intervene on the disease by transmitting

specific electronic vibrations to take the atom back to normal vibration and eliminate the disease, that is, to bring the atom to a level of stability so that it can get back to work properly. This review aims to review the available information on one of the equipment that proposes to this therapy, Quantec.

**Keywords:** Electromagnetic fields, Holistic health, Complementary therapies

### **Introduction**

Instrumental biocommunication is a complementary therapeutic resource that uses electronic devices. However, the scientific evidence regarding this technique seems insufficient [1].

Abrahms found that all substances radiate electronic vibrations that can be

detected and measured, and that all human organs, sick or healthy, generate and transmit radiation or "vibrations" [1]. Thus, researchers have hypothesized that the flow of bioelectricity in our body, such as the electrical signals of the heart, brain and muscles, give rise to biomagnetic fields [2]. Although the effects of the biofield may be weak in terms of potency, they may have a measurable effect on matter [3].

These biomagnetic fields, originated by electric currents, travel through the cells (heart and nervous system) and magnetic materials present in some organs (liver and lung). In nerve cells, these electrical currents are due to changes in the permeability of cell walls, which occur due to the rotational movement of charged particles in the body (protons, electrons, ions and secondary groups, such as amino acids), generating the electromagnetic fields which are produced in the space around the body [4,5]. The intensities of the magnetic fields produced by biological systems are in the range of Nanotesla ( $nT = 10^{-9}$ ) to FemtoTesla ( $fT = 10^{-15}$ ), which are a thousand to a

billion times smaller than the Earth's magnetic field [6].

In this way, each molecule and each molecular interaction in the body radiate a characteristic energy spectrum. The spectrum is an extremely precise representation of the particles moving within it, and this information is so characteristic that it allows identifying the chemical substances [5], as well as the set of molecules, cells, tissues or organs [7].

Thus, the structures and functions of life are ordered, and their biological oscillations are organized in a meaningful way, contributing to the information of a dynamic vibration network, which extends throughout the body and the space around it. This is because living systems are very sensitive to environmental information responding to energy stimuli for survival or reproduction, generating biological adaptation (impulses known as Bioinformation). Therefore, living beings not only radiate but can also absorb and respond to the bioenergetic oscillations of the environment [4,6,8,9,10].

However, the efficacy of Bioinformatics therapies through electronic devices is still controversial, mainly due to the lack of impact journals, which in turn limits their dissemination. Thus, the absence of methodologically well-conducted clinical trials and the limited availability of information on the mechanisms of biological action of these devices restrict the development of a greater body of knowledge on this subject. Thus, the objective of this article is to contribute information about the characteristics and application of this therapeutic modality with the purpose of stimulating the development of clinical researches that allow to explore the real contribution of the Bioinformation therapies through Quantec in the health treatments of the population.

### **Bioinformation**

Bioresonance therapy is defined as the use of effects of electromagnetic fields emitted by people to diagnose and treat diseases [11]. Brügemann (1989) described Biorononia as a new method of therapy that uses endogenous vibrations in the ultrafine range of

bioenergy. "[12] Physiological studies have shown that organs of the human body emit a fixed frequency called natural frequency and this is called resonance [13].

Experimental studies on the sign of blood bacteria have shown how nano-fragments of DNA from bacteria and viruses can emit specific electromagnetic (EM) signals that could be used to diagnose some chronic diseases. These observations on bioresonance, call attention due to its diagnostic and therapeutic potential of the so-called frequency inversion that seems capable of curing some viral and bacterial diseases, as well as some chronic diseases [14].

Thus, if the frequency of self-excitation in an organ of the body is close to or in line with the frequency of external vibration, the response to bioresonance occurs and may directly affect the plasma membrane and the mitochondrial membrane of various tissues and cells, resulting in a change in the permeability of the membrane, as well as affect the activity of the enzyme. This view has been experimentally



proven by changes in ultrastructural and immunochemical detection [13].

In the endogenous form of the bioresonance, the postulated oscillations are captured by means of hand and foot electrodes and, after an electronic inversion, are transmitted back to the body for therapeutic purposes. In the exogenous form, the postulated oscillations of bioactive substances are transmitted after an electronic inversion (for example, allergens) or amplification (for example, nosodes) for therapeutic purposes in the human organism [15].

In this way, bioresonance therapy allows the endogenous regulatory energies to continue their "activities" without being disturbed. With this, a strong impulse is given to the spontaneous healing energies of the body for self-regulation. This is one of the major goals of bioresonance therapy through sophisticated electronic devices, which can measure electromagnetic waves (the diagnostic element) and, if abnormal, can be normalized (the therapeutic element of the approach) [16].

The term "Bioinformation" was also mentioned by Burleson [17], suggesting that the bioelectromagnetic field of the heart can produce surface potentials of  $5 \cdot 10^{-19}$  Tesla, generating a great source of bioinformation for the rest of the body. The brain is also capable of generating bioelectromagnetic field, reaching signal powers that reach 10-15 Tesla [18]. Bioelectromagnetism, magnetobiology and biophysical fields are part of the regulatory role of cellular structure and function [5], and these "information" can be used for treatment [19] through the replication of natural patterns of dynamic frequency [20].

In this way, quantum physics has opened new perspectives from the point of view of interconnection in biology. Therefore, a living organism cannot be conceived of as a mere collection of independent molecules mutually coupled by chemical interactions only, but must be a coherent set, a field of matter whose evolution is driven by the interaction of electrodynamics and chemistry [21]. In this perspective, the term Bioinformation is defined as any kind of environmental or interpersonal stimulus that generates a biological

response, a communication between biological beings, which can be verbal or non-verbal [22].

The impact of the environment on the human being can be observed in our basic feelings, as in feeling loved, in danger, protected or happy, leading to a plethora of biological responses in our organism, such as altered heartbeat, change in blood pressure, release of hormones, among others. Each stimulus generates a response in our organism, this interaction being known as biocommunication.

There are two types of biocommunication, the instrumental and the non-instrumental, the first one being generated by the communication between our biological system and a machine or vice versa, with the advantage that we can control how we want to stimulate our system and expect a response. The second is generated by our own environment and by our interaction with other living beings. These stimuli generate responses in our biological, electromagnetic and emotional composition, and can be used to

combat the causes of the disease and not only the symptoms [23,24].

### **Quantec**

The instrumental Biocommunication through Quantec represents a therapeutic technique that consists of the use of an instrumental biocommunication device that simulates a biological system, capable of receiving and transmitting "information" through the emission of waves by a white noise diode, which combines analysis and balance at both the electromagnetic and the informational level. This type of noise has the same power spectral density along the entire band [25,26] and was used in order to capture all the powers, regardless of their speeds [27].

Thus, Quantec works by reading the morphic fields of living beings through a photo or face-to-face scanning, being able to identify all energy imbalances, as well as identifying the possible resources necessary for rebalancing. A total of 110,000 "INPUTS" exist for analysis in the database in the device, which allows Quantec to assist in the

recovery of the normal vibrational field and to potentiate the positive effects of other therapies by sending vibrational waves contained in the Morphic Fields of each one of the multidimensional bodies of the human being [24].

Morphic fields are patterns or order structures that carry information and are used through space and time without any loss of intensity after they have been created. These fields organize not only the fields of living organisms, but also of crystals and molecules, and each structure, for example, a protein, has its own morphic field. In the same way each type of crystal, each type of organism, each type of instinct or pattern of behavior has its morphic field. These fields are those that order nature [28].

Although science does not yet have methodological descriptions that explain in detail the mechanisms that determine the ability of the white noise diode to produce the interface between the consciousness of living beings and the machine (computer), there are experiments with people and animals, which allow to verify this relation [29]. In this way, Quantec uses the white noise

diode to establish a connection with the consciousness of people and to locate in the Software database the relevant inputs (such as affirmations, acupuncture, homeopathy, Bach flowers, quality management of life, among others) that can restore the patient's total balance, and thereby reduce some type of imbalance or even some disease.

Since it is an energy field analysis and emission, there is no need for physical presence for the interventions, since it provides a subtle energetic connection of the apparatus with the patient, making possible the distance therapy [30], which constitutes a considerable saving. In addition, it also has preventive action, since in identifying the lack of harmony in the subtle energetic bodies can modify the causal factors before the symptom is manifested in the physical body [23,28]. However, Quantec should be considered as a device that acts in a complementary way to health therapies and, as such, does not replace traditional medicine, but supports and

reinforces treatment in an integral way [3].

### **Clinical applications**

Although clinical studies on instrumental biocommunication using Quantec are scarce [1], recent observations in our laboratory suggest that this therapeutic modality may act positively on blood pressure, glycemia and triglycerides in hypertensive patients [31]. These results suggest that therapy with Quantec may be effective in the treatment of metabolic and cardiovascular diseases.

In a study with homeopathy, Smith [32] reports that a "null-potency" frequency can erase a frequency signature and, consequently, affect a biological system. Thus, the homeopathic principle assumes that for a given pathological ripple one must find just the opposite ripple that heals or at least relieves. In addition to the classical research of homeopathic remedies to achieve this goal, there is a new way, the generation of own nosodes through radionics. This principle applied to homeopathy explains in part how the

Quantec could override altered frequencies and thus return the normal pattern of body functioning. Thus, biocommunication intervenes in the subtle and electromagnetic fields of the patient to combat the causes of the disease and treat through the transmission of electronic vibrations regulating the biochemical and cellular processes [33,24].

However, from the clinical point of view, the vibrational rebalancing that the Quantec proposes to perform can lead to divergences when considering recommended parameters of normality, such as blood pressure and biochemical values. This may occur, therefore, the harmonization of the organism represents an individualized and multifactorial fact, and thus, increased blood glucose or blood pressure may not represent a worsening of health conditions, but a reorganization of the systems to produce an improvement in the health conditions [31]. Although this look at the behavior of a person's health indicators may produce mistrust of health professionals, the growing understanding of bio-field science has the purpose of promoting a more



humane and personalized form of medicine and an expansion of our point of view. view [33].

Considering also that any disease may have a psychosomatic origin, [34] all information about the factors that led the person to fall ill may be in his subconscious. Thus, when connecting with the conscience through Quantec, it would be possible to identify the causal factors of the disease, as well as to establish a connection to modify this awareness and produce positive effects on the health of this patient.

Schneider and Walach [1] undertook a clinical trial to examine whether individuals treated with QUANTEC report improvements in well-being, health, and compliance with prerecorded desires. The results indicate that although treatment with QUANTEC has produced beneficial effects on health, these may have been influenced by psychological effects. Unfortunately, no more data were found in the literature for the present findings to be confronted, however, these effects may confirm that the externally applied frequencies, replicating natural patterns of dynamic frequency in the

body, interact with the biofield, mediating some biological responses [35] and producing new perspectives from the point of view of the interconnection between biology and quantum physics [21].

### **Conclusion**

The use of instrumental biocommunication therapy by means of Quantec or another device is not new, but the lack of scientific evidence capable of describing this phenomenon has always been a limitation for the development of this knowledge. On the other hand, the advances in basic research on quantum physics and the prospects of new research that allow a better understanding and application of this knowledge open a new opportunity to resume studies on the contribution of this method of complementary therapy. Therefore, controlled, randomized, double-blind clinical trials are of great importance to highlight the potential therapeutic effects of instrumental biocommunication therapy through Quantec, and thus stimulate further studies that allow the understanding of

the mechanisms determining this relationship cause and effect.

### Acknowledgements

I would like to thank my teacher Robson Quiterio and also my colleagues for the great effort to carry on this novelty research.

### Conflict of Interest

Declares no any financial interest or any conflict of interest exists.

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